



# CCM Lightning Paint Stripper Safety Data Sheet

## Commercial Coating Manufacturers

Version No: 2.0

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: 16/10/2025

Print Date: 16/10/2025

L.GHS.NZL.EN

## SECTION 1 Identification of the substance / mixture and of the company / undertaking

### Product Identifier

Product name: CCM Lightning Paint Stripper

Synonyms: None

Other means of identification: Not Available

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Paint Stripper used to strip paint from wood, automotive, marine, and general metal surfaces.

### Details of the manufacturer or importer of the safety data sheet

Registered company name: Commercial Coating Manufacturers

Address: 9 Bay Park Place, Birkdale, Auckland 0626

Telephone: (09) 483-4833

Fax: Not Available

Website: <https://ccmcoatings.com/>  
Email: [info@ccmcoatings.com](mailto:info@ccmcoatings.com)

Emergency telephone number

NZ POISONS (24hr 7days): 0800 764766

## SECTION 2 Hazards identification

Classification of the substance or mixture

Hazard statement(s)

| H Code      | Hazard Class – Category: Hazard Statement                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>H302</b> | Acute toxicity (oral) – Category 4: Harmful if swallowed                                                                           |
| <b>H315</b> | Skin corrosion/irritation – Category 2: Causes skin irritation                                                                     |
| <b>H319</b> | Serious eye damage/eye irritation – Category 2A: Causes serious eye irritation                                                     |
| <b>H336</b> | Specific target organ toxicity (single exposure, narcotic effects) – Category 3: May cause drowsiness or dizziness                 |
| <b>H351</b> | Carcinogenicity – Category 2: Suspected of causing cancer                                                                          |
| <b>H361</b> | Reproductive toxicity – Category 2: Suspected of damaging fertility or the unborn child                                            |
| <b>H370</b> | Specific target organ toxicity (single exposure) – Category 1: Causes damage to organs                                             |
| <b>H373</b> | Specific target organ toxicity (repeated exposure) – Category 2: May cause damage to organs through prolonged or repeated exposure |
| <b>H314</b> | Causes severe skin burns and eye damage (Skin corrosion)                                                                           |

Legend: Classification based on mixture and ingredient data, from supplier SDS;

Determined using HSNO criteria: 6.1D, 6.3A, 6.4A, 6.7B, 6.8B, 6.9A, 6.9B

Label elements

Hazard pictogram(s):

- GHS07 (Exclamation mark) - Health hazard warning
- GHS08 (Health Hazard) – Carcinogenicity
- GHS06 (Skull and crossbones) – Acute toxicity hazard
- GHS05 (Corrosion) – Skin corrosion, serious eye damage

Signal word: Danger



#### Precautionary statement(s) Prevention

P264: Wash hands thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

#### Precautionary statement(s) Response

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313: If eye irritation persists: Get medical advice/attention

P302+P352: IF ON SKIN: Wash with plenty of water

P332+P313: If skin irritation occurs: Get medical advice/attention

#### Precautionary statement(s) Storage

P233: Keep container tightly closed.

#### Precautionary statement(s) Disposal

P501: Dispose of contents/container in accordance with local/regional/national regulations

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## SECTION 3 Composition / information on ingredients

#### Substances

See section below for composition of Mixtures

#### Mixtures

Ingredients are required by the Hazard Substances (Safety Data Sheets) Notice 2017, EPA consolidation 30 September 2022 to be identified:

#### Substance

| CAS No  | Name            | %[weight] |
|---------|-----------------|-----------|
| 75-09-2 | Dichloromethane | 80-90%    |
| 64-17-5 | Ethanol         | <10%      |

Legend: 1. Classification drawn from supplier SDS;

## SECTION 4 First aid measures

### Description of first aid measures

#### Eye Contact

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water for at least 15 minutes
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids
- Remove contact lenses if present and easy to do, continue rinsing
- Seek immediate medical attention if pain persists, recurs, or vision is affected
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel

#### Skin Contact

If skin contact occurs:

- Immediately remove all contaminated clothing, including footwear
- Wash skin thoroughly with soap and water for at least 15 minutes
- Seek medical attention if irritation develops or persists

#### Inhalation

If mist, vapors or spray are inhaled:

- Remove person from contaminated area to fresh air
- Keep person warm and at rest in a position comfortable for breathing
- If breathing is difficult, give oxygen if available
- If person is not breathing, give artificial respiration
- Seek immediate medical attention if symptoms persist or worsen

#### Ingestion

If swallowed:

- Do not induce vomiting unless directed by medical personnel

- Rinse mouth thoroughly with water
- Give small sips of water if person is conscious and able to swallow
- Never give anything by mouth to an unconscious person
- Seek immediate medical attention
- If spontaneous vomiting occurs, lean person forward to prevent aspiration

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5 Firefighting measures

### Extinguishing media

Suitable extinguishing media:

- Water spray or fog (preferred for cooling containers)
- Foam (alcohol resistant preferred)
- Dry chemical powder
- Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media:

- None known - all standard firefighting media may be used

### Special hazards arising from the substrate or mixture

None

Hazardous decomposition products:

- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>)
- Acrylic monomers
- Water vapor
- Various organic compounds

### Advice for firefighters

Fire Fighting: Alert Fire Brigade and tell them location and nature of hazard. Approach fire from upwind direction.

Special protective equipment for firefighters:

- Wear full structural firefighting protective clothing and equipment
- Use self-contained breathing apparatus (SCBA) with full face mask operated in positive pressure mode
- Cool fire-exposed containers with water spray

#### Fire/Explosion Hazard

- Non-combustible under normal conditions
- May burn if sufficient heat is applied
- Containers may rupture when exposed to fire due to pressure buildup
- May emit irritating vapor/fumes when heated

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## SECTION 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

- Eliminate all sources of ignition
- Ensure adequate ventilation
- Wear appropriate personal protective equipment (see Section 8)
- Avoid breathing mist/vapors
- Avoid contact with skin and eyes

For emergency responders:

- Use personal protective equipment as required
- See section 8 for detailed PPE recommendations

### Environmental precautions

Environmental precautions:

- Prevent entry into waterways, sewers, basements or confined areas
- Do not allow product to enter stormwater drains, soil, or groundwater
- Dyke spilled material to prevent spreading
- Inform relevant authorities if environmental contamination occurs
- See section 12 for ecological information

### Methods and material for containment and cleaning up

Small spills:

- Absorb with inert absorbent material (sand, earth, vermiculite, diatomaceous earth)

- Sweep up absorbed material and place in suitable containers for disposal
- Clean residue with soap and water
- Ensure good ventilation

Large spills:

- Dyke spilled material where possible to prevent spreading
- Remove sources of ignition and provide adequate ventilation
- Personnel should wear appropriate protective equipment
- Absorb with inert absorbent material
- Collect mechanically and place in appropriate containers for disposal
- Clean contaminated area thoroughly with soap and water
- Do not use high pressure water jets which may spread contamination

Additional advice:

- Never use compressed air to clean up spills
- Dispose of waste in accordance with local regulations
- Personal Protective Equipment advice is contained in Section 8 of the SDS

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## SECTION 7 Handling and storage

### Precautions for safe handling

Safe handling procedures:

- Avoid any personal contact, including inhalation
- Do NOT allow clothing wet with material to stay in contact with skin
- Regularly check for bulging containers, pressure buildup may occur.
- Only store in provided containers
- Keep containers securely sealed
- Store in a cool, dry, well ventilated area
- Check regularly for leaks
- Avoid contact with eyes and skin
- Avoid breathing mist/vapors, especially in enclosed areas
- Use only in well-ventilated areas
- Wash hands thoroughly after handling
- Remove contaminated clothing and wash before reuse
- Do not eat, drink or smoke when using this product
- Ensure eye wash stations and safety showers are accessible

General hygiene considerations:

- Handle in accordance with good industrial hygiene and safety practices
- Regular cleaning of equipment and work area



- Provide adequate ventilation when applying

## Conditions for safe storage, including any incompatibilities

### Storage requirements:

- Store in original containers in a cool, dry, well-ventilated area
- Storage temperature: 5°C to 35°C (41°F to 95°F)
- Protect from freezing - product may be damaged if frozen
- Protect from extreme heat and direct sunlight
- Keep containers tightly closed when not in use
- Store away from children and unauthorized personnel

### Container considerations:

- Use only original containers or containers approved for this material
- Ensure container is suitable and properly labeled
- Do not store in unlabeled containers

### Incompatible materials:

- Strong oxidizing agents (chlorine bleaches, peroxides, nitrates)
- Strong acids and alkalis
- Active metals (aluminum powder, zinc dust)
- Products containing ammonia

### Segregation requirements:

- Separate from incompatible materials
- Store away from heat sources, ignition sources, and direct sunlight
- Ensure adequate separation from oxidizing materials

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## SECTION 8 Exposure controls / personal protection

### Control parameters

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Not Available

| Ingredient | Original IDLH | Revised IDLH |
|------------|---------------|--------------|
|------------|---------------|--------------|

|                              |                               |               |
|------------------------------|-------------------------------|---------------|
| Dichloromethane(CAS 75-09-2) | 174 mg/m <sup>3</sup> (50ppm) | Not available |
| Ethanol (CAS 64-17-5)        | 3,300 ppm                     | 2,300 ppm     |

## MATERIAL DATA

## Exposure controls

Appropriate engineering controls:

- General mechanical ventilation is adequate for normal use
- Local exhaust ventilation recommended for spray application or use in enclosed areas
- Ensure fresh air introduction and exhaust ventilation adequate to maintain exposures below occupational limits
- Explosion-proof equipment may be required in enclosed areas with inadequate ventilation
- Eye wash stations should be available in work areas

Individual protection measures, such as personal protective equipment



Eye and face protection:

- Safety glasses with side shields (minimum requirement)
- Chemical goggles required
- Face shield required
- Contact lens use is not recommended

Skin protection:

- Chemical-resistant gloves recommended
- Avoid natural rubber, PVC may be suitable for brief contact
- Impervious protective clothing for extensive exposure
- Full protective overalls required
- Change contaminated clothing immediately

Hands/feet protection:

- Wear chemical protective gloves, e.g. nitrile rubber
- Impervious protective boots recommended
- NOTE: The material may produce skin sensitisation in predisposed individuals

- Glove breakthrough times vary by manufacturer - consult glove supplier
- Butyl or Neoprene Gloves

**Respiratory protection:**

- Generally not required for outdoor use with adequate ventilation
- For spray application or poorly ventilated areas: Use NIOSH/MSHA approved respirator
- Recommended filter type: Particulate filter (P95 minimum) for spray mist
- Organic vapor cartridge (Type A filter) if significant vapor exposure occurs
- Full face respirator may be required for extensive spray operations

**Body protection:**

- Impervious apron for protection against splashes
- Coveralls for extensive exposure
- Remove contaminated clothing immediately and wash before reuse

**Other protection:**

- Emergency eye wash and safety shower should be available
- Suitable facilities for washing hands and face should be available

## SECTION 9 Physical and chemical properties

**Information on basic physical and chemical properties**

| Property                                | Value              |
|-----------------------------------------|--------------------|
| Appearance                              | Colored dispersion |
| Physical state                          | Liquid             |
| Relative density (Water = 1)            | 1.30 - 1.50        |
| Odor                                    | Solvent odour      |
| Partition coefficient n-octanol / water | Not Available      |
| Odor threshold                          | Not Available      |
| Auto-ignition temperature (°C)          | Not Available      |
| pH (as supplied)                        | N/A                |
| Decomposition temperature (°C)          | Not Available      |

|                                              |                          |
|----------------------------------------------|--------------------------|
| Melting point / freezing point (°C)          | 0°C                      |
| Viscosity (cSt)                              | Not Available            |
| Initial boiling point and boiling range (°C) | Not Available            |
| Molecular weight (g/mol)                     | Not Applicable (mixture) |
| Flash point (°C)                             | Not Available            |
| Taste                                        | Not Available            |
| Evaporation rate                             | Not Available            |
| Explosive properties                         | Not explosive            |
| Flammability                                 | Not flammable            |
| Oxidising properties                         | Not Available            |
| Upper Explosive Limit (%)                    | Not Available            |
| Surface Tension (dyn/cm or mN/m)             | Not Available            |
| Lower Explosive Limit (%)                    | Not Available            |
| Volatile Component (%vol)                    | >80%                     |
| Vapour pressure (kPa)                        | ~40 kPa at 20°C          |
| Gas group                                    | Not Applicable           |
| Solubility in water                          | Not Available            |
| pH as a solution (1%)                        | Not Available            |
| Vapour density (Air = 1)                     | Not Available            |
| VOC g/L                                      | Not Available            |

## SECTION 10 Stability and reactivity

| Property | Description |
|----------|-------------|
|----------|-------------|

|                                    |                                                                                        |
|------------------------------------|----------------------------------------------------------------------------------------|
| Reactivity                         | Product is considered stable under normal conditions of use and storage                |
| Chemical Stability                 | Stable under normal handling and storage conditions. Stable when stored as recommended |
| Possibility of Hazardous Reactions | None under normal processing and handling conditions.                                  |
| Conditions to avoid                | See section 7                                                                          |
| Incompatible Materials             | Incompatible with strong acids and bases. Incompatible with oxidizing agents.          |

## SECTION 11 Toxicological information

### Information on toxicological effects

| Exposure Route | Information                                                                                                                                                                                              |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhaled        | May cause harm of the nose, throat and respiratory system if vapors or mist are inhaled. Exposure to high concentrations may cause drowsiness or dizziness. Severe exposures may cause damage to organs. |
| Ingestion      | Harmful if swallowed. May cause irritation to the gastric tract, with stomach pain, nausea and vomiting. Toxic effects may appear if large doses are ingested.                                           |
| Skin Contact   | Causes skin irritation. Symptoms may include redness, itching and inflammation. Prolonged or repeated exposure may cause severe skin burns.                                                              |
| Eye            | Causes serious eye irritation. Symptoms may include redness, tearing and discomfort. Direct contact may cause serious eye damage.                                                                        |
| Chronic        | Long-term or repeated exposure may cause damage to organs. Suspected of causing cancer. Suspected of damaging fertility or the unborn child.                                                             |

### Acute toxicity estimates (ATE) or LD50/LC50 values:

|               |           |             |                 |
|---------------|-----------|-------------|-----------------|
| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|-----------|-------------|-----------------|

|                               |                   |                       |                      |
|-------------------------------|-------------------|-----------------------|----------------------|
| Dichloromethane (CAS 75-09-2) | 1,600 mg/kg (Rat) | 2,000 mg/kg (Rat)     | 53 mg/L (Rat) 6 h    |
| Ethanol (CAS 64-17-5)         | 7,060 mg/kg (Rat) | 12,870 mg/kg (Rabbit) | 124.7 mg/L (Rat) 4 h |

#### Information on toxicological effects

- **Acute toxicity:** Harmful if swallowed.
- **Skin corrosion/irritation:** Causes skin irritation; prolonged or high exposure may cause severe skin burns.
- **Serious eye damage/irritation:** Causes serious eye irritation; direct contact may cause severe eye damage.
- **Respiratory or skin sensitisation:** Inhalation of vapours or mist may cause harm to nose, throat, and lungs.
- **Germ cell mutagenicity:** Not classified – available data do not indicate mutagenicity.
- **Carcinogenicity:** Suspected of causing cancer.
- **Reproductive toxicity:** Suspected of damaging fertility or the unborn child.
- **STOT – single exposure:** May cause drowsiness or dizziness. Causes damage to organs following single exposure.
- **STOT – repeated exposure:** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard:** Not classified – data do not indicate aspiration toxicity.

## SECTION 12 Ecological information

#### Toxicity

##### CCM Lightning Paint Stripper

| Endpoint      | Test Duration (hr) | Species       | Value         | Source        |
|---------------|--------------------|---------------|---------------|---------------|
| Not Available | Not Available      | Not Available | Not Available | Not Available |

| Chemical Name                 | Algae / Aquatic Plants                                 | Fish                                                          | Crustacea                                               |
|-------------------------------|--------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|
| Dichloromethane (CAS 75-09-2) | EC50: 662 mg/L (96h, Pseudokirchneriella subcapitata)  | LC50: 193 mg/L (96h, Pimephales promelas / Fathead minnow)    | EC50: 27 mg/L (48h, Daphnia magna)                      |
| Ethanol (CAS 64-17-5)         | EC50: 275 mg/L (72h, Chlorella vulgaris / Green algae) | LC50: 14,200 mg/L (96h, Pimephales promelas / Fathead minnow) | EC50: 5,012 mg/L (48h, Ceriodaphnia dubia / Water flea) |

Legend: [1]. Value obtained from Manufacturer's SDS

May be harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Do NOT allow products to come in contact with surface waters or to intertidal areas below the mean high water mark.  
DO NOT discharge into sewer or waterways.  
Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Persistence and degradability

| Ingredient                    | Persistence: Water/Soil | Persistence: Air |
|-------------------------------|-------------------------|------------------|
| Dichloromethane (CAS 75-09-2) | LOW                     | HIGH             |
| Ethanol (CAS 64-17-5)         | LOW                     | LOW              |

#### Bioaccumulative potential

| Ingredient                    | Bioaccumulation |
|-------------------------------|-----------------|
| Dichloromethane (CAS 75-09-2) | LOW             |
| Ethanol (CAS 64-17-5)         | LOW             |

#### Mobility in soil

| Ingredient                    | Mobility |
|-------------------------------|----------|
| Dichloromethane (CAS 75-09-2) | LOW      |
| Ethanol (CAS 64-17-5)         | HIGH     |

## SECTION 13 Disposal considerations

### Waste treatment methods

#### Product / Packaging disposal

##### Liquid waste:

- Do not pour down drains or into water courses
- Allow material to dry completely before disposal

##### Container disposal:

- Dispose according to local regulations
- Dispose empty containers
- Do not re-use empty containers
- Do not reuse containers for food, feed, or drinking water

##### Large quantities:

- Consult local waste management authority for disposal options
- May be suitable for energy recovery in appropriate facilities
- Follow all local, regional, and national disposal regulations

##### General disposal guidance:

- Legislation addressing waste disposal requirements may differ by country, state and/or territory
- DO NOT allow wash water from cleaning or process equipment to enter drains
- Consult manufacturer for recycling options
- Do not discharge the substance into the environment

### Disposal Requirements

- Packages that have been in direct contact with the product should be appropriately cleaned before disposal
- Do not allow product or wash water from cleaning or process equipment to enter drains or watercourses
- It may be necessary to collect all wash water for treatment before disposal
- The generation of waste should be avoided or minimised wherever possible
- Disposal of this product should comply with local hazardous waste regulations
- For treating and discharging processes contact your local authority

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## SECTION 14 Transport information

## ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land"

- Dangerous Goods Class: 6.1
- Packing Group: III
- Hazchem Code: 2Z
- Emergency Response Guide No: 37
- Proper Shipping Name: DICHLOROMETHANE

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1, except 1.4S), flammable gases (Class 2.1) if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), infectious substances (Class 6.2), radioactive substances (Class 7), or foodstuffs and food packaging (unless packaging meets NZS 5433 requirements); exemptions may apply.

## MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea

- UN No: 1593
- Dangerous Goods Class: 6.1
- Packing Group: III
- Proper Shipping Name: DICHLOROMETHANE

## AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air

- UN No: 1593
- Dangerous Goods Class: 6.1
- Packing Group: III
- Proper Shipping Name: DICHLOROMETHANE

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## SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| HSR Number: HSR002679 | Surface Coatings & Colourants Carcinogenic Group Standard |
|-----------------------|-----------------------------------------------------------|

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

Approved Handler: N/A

Dichloromethane(75-09-2) and Ethanol(64-17-5) are found on the following regulatory lists:  
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals  
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals -  
Classification Data  
New Zealand Inventory of Chemicals (NZIoC)

### Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class   | Quantities     |
|----------------|----------------|
| Not Applicable | Not Applicable |

### Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Class of substance | Quantities     |
|--------------------|----------------|
| Not Applicable     | Not Applicable |

### Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class   | Gas (aggregate water capacity in mL) | Liquid (L)     | Solid (kg)     | Maximum quantity per package for each classification |
|----------------|--------------------------------------|----------------|----------------|------------------------------------------------------|
| Not Applicable | Not Applicable                       | Not Applicable | Not Applicable | Not Applicable                                       |

### Tracking Requirements

Not Applicable

### National Inventory Status

| National Inventory                               | Status |
|--------------------------------------------------|--------|
| Australia - AIIIC / Australia Non-Industrial Use | Yes    |

|                     |     |
|---------------------|-----|
| New Zealand - NZIoC | Yes |
|---------------------|-----|

Legend: Yes = All CAS declared ingredients are on the inventory

No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

## SECTION 16 Other information

Revision Date: 06/07/2025

Initial Date: 21/03/2020

### SDS Version Summary

| Version | Date of Update | Sections Updated                                                                                                                                      |
|---------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.0     | 08/08/2023     | Initial sheet created. Basic standard information                                                                                                     |
| 2.0     | 16/10/2025     | Complete document with enhanced safety information, expanded handling procedures, detailed PPE recommendations, and comprehensive physical properties |

### Other information

Disclaimer: The information contained in this Safety Data Sheet is based on data from sources considered technically reliable. It is provided for guidance only and does not constitute a guarantee of the properties of the product. Users should make their own investigations to determine the suitability of the information for their particular applications.

#### Training recommendations:

- Ensure all personnel are trained in safe handling procedures
- Provide training on emergency procedures and spill response
- Train workers in proper use of personal protective equipment
- Regular refresher training on chemical safety procedures

#### Additional safety considerations:

- Maintain good housekeeping practices
- Ensure adequate ventilation in work areas
- Regular equipment maintenance and inspection

- Emergency procedures should be practiced regularly

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

Definitions and Abbreviations:

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted No-Effect Concentration
- MARPOL: International Convention for the Prevention of Pollution from Ships
- IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- IBC: International Bulk Chemical Code
- CAS No: Chemical Abstract Service number
- TWA: Time Weighted Average
- VOC: Volatile Organic Compounds – organic chemicals with high vapor pressure that contribute to air pollution
- PPE: Personal Protective Equipment
- NIOSH: National Institute for Occupational Safety and Health (US agency)
- MSHA: Mine Safety and Health Administration (US agency)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- HSNO: Hazardous Substances and New Organisms Act 1996 (New Zealand)
- UN Number: United Nations number assigned to hazardous substances for transport identification
- HAZCHEM: Hazardous Materials Emergency Action Code for NZ/Australia used in transport emergency response
- Pictogram: Graphical symbol on labels used to convey chemical hazard information under GHS
- Signal Word: "Warning" or "Danger" used on GHS labels to indicate severity of hazard
- STOT: Specific Target Organ Toxicity – chemicals that cause non-lethal organ effects from single or repeated exposure
- LD50: Median Lethal Dose – dose required to kill 50% of test population
- LC50: Median Lethal Concentration – airborne concentration causing death in 50% of test population
- NZIoC: New Zealand Inventory of Chemicals – list of substances approved under the HSNO Act
- EPA Approval: Environmental Protection Authority approval of a substance under a Group Standard

- HSR Number: Hazardous Substances Register number issued under HSNO for regulatory tracking
- Group Standard: Approval covering groups of substances with similar properties and risks under HSNO

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end of SDS